

SHEET INDEX

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CIRCUIT NOTES:

DESIG	FUSE APP	POTENTIAL	ONE PER
1-1/3		-48 VOLT	CKT
BATTERY SYMBOL		VOLTAGE RANGE	
-48		45 - 52V	

EQUIPMENT NOTES:

201. THE SHIELDED LEADS TO (T81) SHALL BE TWISTED PAIRS WITH THE SHIELDS TERMINATED AT THE AMPLIFIER END ONLY. THE SHIELD SHALL BE INSULATED THROUGHOUT THEIR LENGTH. THE TYPE OF WIRE SHALL BE SPECIFIED ON THE CONNECTING CIRCUIT.

SUPPORTING INFORMATION

CATEGORY	NO.

OPTION INDEX

APP OR MFG	LOCATION
Z	2C5, 4C5
T	2C5, 4C5
X	286, 447, 487
W	286, 486
V	2C5
Y	APP FIG. 1

FEATURE OR OPTION	PROVIDE			REMOVE
	APP FIG.	APP OR MFG	QUANTITY	APP OR MFG
KS-1922T, L1 AMPLIFIER	2		1 PER CKT	
AMPLIFIED CKT	3		1 PER CKT	
BATTERY FROUND	POSITIVE	R 2		
	NEGATIVE	T		2
TRANSFORMER OUTPUT	1 OHM	X		1H
	2 OHM	R 4		
B INDICATES OPTION FURNISHED WITH AMPLIFIER AS SUPPLIED BY THE MANUFACTURER				

103.

NETWORK VALUES		
NETWORK NO.	RESISTANCE IN OHMS	CAPACITANCE IN PF

INFORMATION NOTES:

301. UNLESS OTHERWISE SPECIFIED:
RESISTANCE VALUES ARE IN OHMS;
CAPACITANCE VALUES ARE IN MICROFARADS;
VALUES PRECEDED BY THE SYMBOL + (PLUS)
OR - (MINUS) ARE IN VOLTS.

104.

RECORD OF APP FIGURES, WIRING AND APPARATUS CHANGES									
CHANGED OR ISS	IF JOB RECORDS DO NOT SPECIFY	THIS OPTION WAS FURN	SEE NOTE	USED IN CIRCUIT					
				STD	A & M	RD			
4B	T OR Y	Y		T					
7B	APP FIG 1003	1		Y		1			

NOTICE
APP FIG 1003 IS
A REVISION OF THE
THE REEL SYSTEM
CIRCUIT WHICH
WAS THE ORIGINAL

ISSUE
9D

SD-99360-01

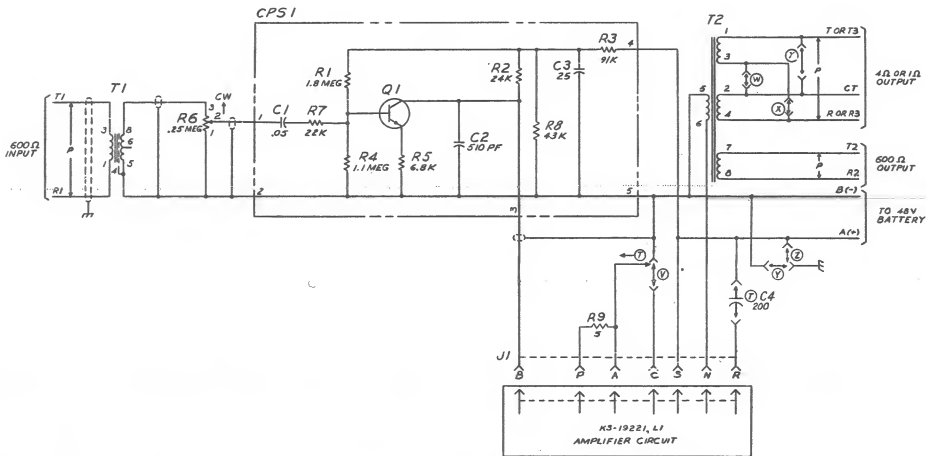
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A&M ONLY

COMMON SYSTEMS
KS-19739, L1 AMPLIFIER CIRCUITSD-99360-01-1
4 SHEETSBELL TELEPHONE LABORATORIES
INCORPORATED

65

AMPLIFIER CIRCUIT



APP FIG. 1 (MFR DISC.)

APP FIG. 2

CIRCUIT PACKAGE		
DESIG	LOC	CODE
CPS 1	2A2	B-573725

CONNECTOR	
DESIG	J1
CODE	KS-16345,L2
OPTION	
TERM.	LOC
S	204
R	204
P	204
N	204
M	
L	
K	
J	
H	
F	
E	
O	
C	204
B	204
A	204

POTENTIOMETER	
DESIG	LOC
R6	202

CODE

ALLEN-BRAOLEY, .25 MEG TYPE J
2 WATT - TAPER A FURNISHED
WITH SCREWDRIVER SHAFT 1/8 IN.
BEYOND THE 3/8 IN. MOUNTING
BUSHING. TAPER FLAT 1/32 X
1/32 ON SIDE OF SHAFT END
SHALL BE ON SIDE ADJACENT TO
AND INDICATING WIPER POSITION.
IT SHALL BE LOCATED AT 90° TO
SLOT IN SHAFT.

TRANSFORMER		
DESIG	LOC	CODE
T1	2B1	25361
T2	2A6	2608A

AMPLIFIER		
DESIG	LOC	CODE
	205	KS-19221, L1

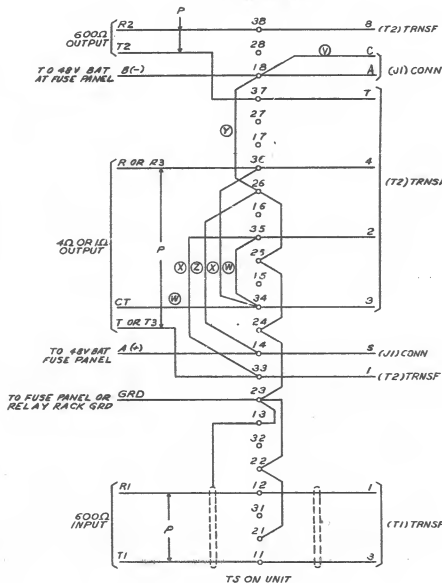
CAPACITOR		
DESIG	LOC	CODE
(T) C4	2C6	SPRAGUE 340207F0756P4

RESISTOR		
DESIG	LOC	CODE
(T) R9	205	KS-14603 L1A,5

DRAWING
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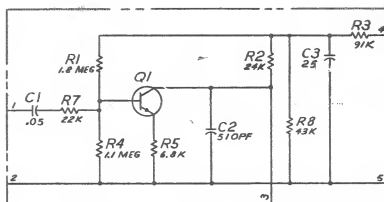
(FOR APP 116, 1, 2, & 3)
SEE NOTE 301



MANUFACTURING REFERENCES

CATEGORY	NO.
ASSEMBLY DRAWING	B-573725

CPS I



COMPONENT LIST

CAPACITOR	
DESIG	CODE
C1	542W
C2	KS-14054, L8, 510 PF
C3	KS-16390, L1, 25

RESISTOR	
DESIG	CODE
R1	1.8 MEG
R2	24 K
R3	91 K
R4	1.1 MEG
R5	6.8 K
R7	22 K
R8	43 K
R9	KS-19150, L1

TRANSISTOR	
DESIG	CODE
Q1	16H

SD-99360-01-3

KS-19739, L1 AMPLIFIER CIRCUIT

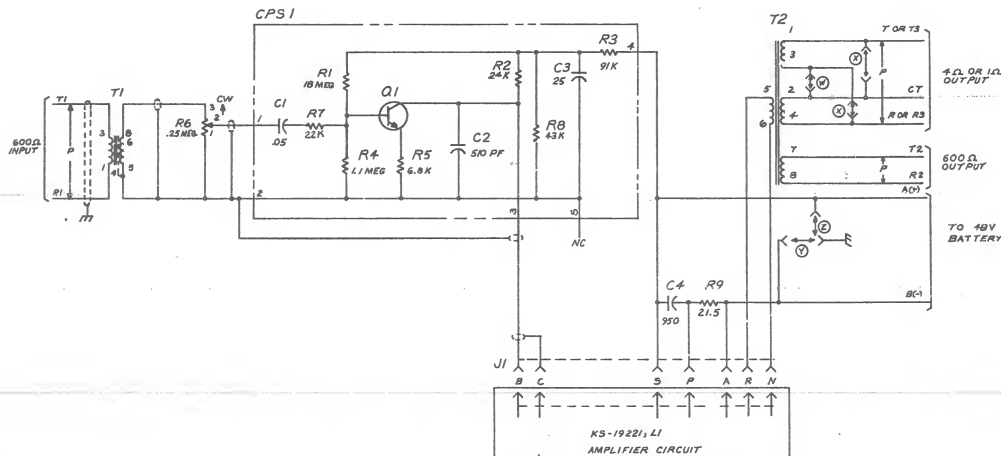
SD-99360-01-3

BELL TELEPHONE LABORATORIES

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ISSUE 9D

FS 2 AMPLIFIER CIRCUIT



APP FIG.3

CIRCUIT PACKAGE

DESIG	LOC	CODE
CPS 1	482	9-577725

CONNECTOR

DESIG	LOC
J1	482
CODE	KS-16345, L2
OPTION	
TERM.	LOC
S	404
R	404
P	404
N	404
L	404
K	404
J	404
H	404
F	404
E	404
D	404
C	404
B	404
A	404

POTENTIOMETER

DESIG	LOC	CODE
R6	482	ALLEN-BRADLEY, .25 MED TYPE J 2 WATT - TAPER & FURNISHED WITH SCREWDRIVER SHAFT 1/8 IN. BEYOND THE 3/8 IN. MOUNTING BUSHING. TAPER FLAT 1/32 X 1/32 ON SIDE OF SHAFT END SHALL BE ON SIDE ADJACENT TO AND INDICATING WIPER POSITION. IT SHALL BE LOCATED AT 90° TO SLOT IN SHAFT.

TRANSFORMER

DESIG	LOC	CODE
T1	481	25WAT 2608A
T2	486	

CAPACITOR

DESIG	LOC	CODE
C4	405	SPRAGUE 340957000JF4

RESISTOR

DESIG	LOC	CODE
R9	406	KS-14603 L1A, 21.5

KS-19221, L1 AMPLIFIER CIRCUIT

BELL TELEPHONE LABORATORIES

SD-99360-01-4

6S

ISSUED

9D

SD-99360-01-4